



Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201503C511
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

MILL TEST CERTIFICATE

EN 10204(2004) TYPE 3.1

		
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea	
Certificate No.	IH20150305391 - 4	
Class Cert. No.		
Date of Issue	2015-03-30	

Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Yield Ratio	Impact Test (V-notch)				Remarks (Impact Specimen Size)
			C	Si	Mn	P	S	Cu Ni	Mo Cr	Al V	Nb	Sn	CE ⁽¹⁾	Tensile Strength	Yield point	Elongation ⁽²⁾		AVG	1	2	3	
			×100		×1000		×100		×1000		×100		N/mm ²		%	()		C				
18X7-1/2X55 40.00 FT	E 180713	30 29,940	19	15	97	26	10	28 9	2 16	4 15	4	17	42	568 567	449 447	26.0 26.5	0.79 0.79					
18X7-1/2X55 40.00 FT	E 181200	12 11,976	19	17	96	23	9	31 8	2 15	3 15	3	14	41	548 546	402 399	25.0 25.0	0.73 0.73					
18X7-1/2X55 40.00 FT	E 181201	8 7,984	18	16	101	32	10	28 9	2 18	2 15	2	14	42	552 558	401 404	25.5 25.0	0.73 0.73					
18X7-1/2X55 40.00 FT	E 181202	4 3,992	18	15	100	16	10	27 8	2 10	3 14	6	13	40	538 532	394 388	26.0 26.5	0.73 0.73					
18X7-1/2X60 40.00 FT	E 180711	6 6,534	18	18	97	23	8	26 9	2 16	5 14	4	13	40	549 547	413 408	27.0 27.5	0.75 0.75					
18X7-1/2X60 40.00 FT	E 180712	29 31,581	18	14	98	20	9	24 8	2 15	4 14	4	14	40	549 545	412 408	26.0 26.5	0.75 0.75					
18X7-1/2X60 40.00 FT	E 181197	11 11,979	18	19	97	24	7	32 9	2 17	3 14	4	15	41	567 564	420 418	24.5 24.0	0.74 0.74					
18X7-1/2X60 40.00 FT	E 181198	9 9,801	20	20	100	26	6	29 9	2 15	3 15	4	13	43	566 564	411 409	24.0 24.5	0.73 0.72					
18X7-1/2X71 40.00 FT	E 180666	8 10,312	18	15	96	21	9	29 10	3 16	4 16	4	14	41	542 539	407 400	27.0 27.5	0.75 0.74					
SUB TOTAL		117 124,099																				

(Note) (1) Ceq = (C+Mn/6+Cr/5+V/5+Mo/5+Ni/15+Cu/15) (2) Gauge length : 200 mm (3) Yield Ratio = YP/TS



J. C. Ahn
General Manager of O.A Team

WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND ALSO WITH THE REQUIREMENTS CALLED FOR THE ABOVE ORDER

B. N. Lee
GENERAL MANAGER
OVERSEAS SALES TEAM

HMS 1102(A)-3a * QR마크는 'Qreal' App를 통하여 권본 확인에 사용되는 마크입니다. (QRcode scanner App : 'Qreal') 2013039 A4(210x297)